CREATIVE BIOMART®
Assay Kit

Lactate Assay Kit II

Product Information

Cat.No. Kit-0499

Product Overview

Lactate Assay Kit II is used for detecting L(+)-Lactate.

Description

Lactate (CH3CH(OH)COO-) plays important roles in many biological processes. Abnormally high concentrations of lactate have been related to disease states such as diabetes and lactic acidosis, etc. L(+)-Lactate is the major lactate stereoisomer formed in human intermediary metabolism and is present in blood. D(-)-Lactate is also present but only at about 1-5% of the concentration of L(+)-Lactate. In the Lactate Assay Kit, lactate is oxidized by lactate dehydrogenase to generate a product which interacts with a probe to produce a color (λmax = 450 nm). The kit detects L(+)-Lactate in biological samples such as serum or plasma, cells, culture and fermentation media at a level of 0.02 mM – 10 mM. There is no need for pretreatment or purification of samples.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C.

Kit Components

Lactate Assay Buffer 25 mLLactate Enzyme Mix (Lyophilized) 1 vialLactate Substrate Mix (Lyophilized) 1 vialL(+)□Lactate Standard (100 mM) 100 μL

Detection method Colorimetric

Compatible Sample Types

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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